

**AMENDMENTS TO THE CLAIMS**

Claims 1-30 are pending in the instant application. Claims 1, 3-4, 8-21, 23-24, and 28-30 have been amended. The Applicant requests reconsideration of the claims in view of the following remarks.

Listing of claims:

1. (Currently Amended) A method for facilitating communication in a mesh network using a plurality of wireless access points, the method comprising:  
coupling a first wireless access point located in a first cell of the mesh network to at least a second wireless access point located in a second cell of the mesh network;  
providing service initially to at least one of a plurality of access devices in the mesh network by said at least a first wireless access point located in said first cell, wherein said at least one of said plurality of access devices maintains a handoff candidate list; and  
servicing within the mesh network, said at least one of a plurality of access devices by said at least a second wireless access point located in said second cell, whenever a signal for said at least one of a plurality of access devices falls below a specified threshold, wherein said second wireless access point is selected from said handoff candidate list.

2. (Original) The method according to claim 1, wherein said at least a second cell is a neighboring cell located adjacent to said first cell.

3. (Currently Amended) The method according to claim 2, comprising transmitting a first signal from a first beamforming antenna coupled to said first wireless access point, to said at least a second access point.

4. (Currently Amended) The method according to claim 3, comprising transmitting a second signal from a second beamforming antenna coupled to said at least a second wireless access point, to said first wireless access point.

5. (Original) The method according to claim 4, wherein a path for facilitating said transmitting said first signal between said first beamforming antenna and said second beamforming antenna is an uplink channel.

6. (Original) The method according to claim 5, wherein a path for facilitating said transmitting of said second signal between said second beamforming antenna and said first beamforming antenna is a downlink channel.

7. (Previously Presented) The method according to claim 6, wherein said uplink channel and said downlink channel comprise a backhaul channel.

8. (Currently Amended) The method according to claim 1, further comprising coupling said first wireless access point located in said first cell to at least a third wireless access point located in said first cell.

9. (Currently Amended) The method according to claim 8, comprising servicing said at least one of a plurality of access devices by said at least a third wireless access point located in said first cell, whenever a signal for said at least one of a plurality of access devices falls below said specified threshold.

10. (Currently Amended) The method according to claim 9, wherein at least one of said first access point and said at least one of a plurality of access devices determines when said signal for said at least one of a plurality of access devices falls below said specified threshold.

11. (Currently Amended) A machine-readable—storagecomputer-readable medium, having stored thereon a computer program having at least one code section for facilitating communication in a mesh network using a plurality of wireless access points, the at least one code section being executable by a machinecomputer for causing the machinecomputer to perform the steps comprising:

coupling a first wireless access point located in a first cell of the mesh network to at least a second wireless access point located in a second cell of the mesh network;

providing service initially to at least one of a plurality of access devices in the mesh network by said at least a first wireless access point located in said first cell, wherein said at least one of said plurality of access devices maintains a handoff candidate list; and

servicing within the mesh network, said at least one of a plurality of access devices by said at least a second wireless access point located in said second cell, whenever a signal for said at least one of a plurality of access devices falls below a specified threshold, wherein said second wireless access point is selected from said handoff candidate list.

12. (Currently Amended) The machine-readable storagecomputer-readable medium according to claim 11, wherein said at least a second cell is a neighboring cell located adjacent to said first cell.

13. (Currently Amended) The machine-readable storagecomputer-readable medium according to claim 12, comprising code for transmitting a first signal from a first beamforming antenna coupled to said first wireless access point, to said at least a second wireless access point.

14. (Currently Amended) The machine-readable storagecomputer-readable medium according to claim 13, comprising code for transmitting a second signal from a second beamforming antenna coupled to said at least a second wireless access point, to said first wireless access point.

15. (Currently Amended) The machine-readable storagecomputer-readable medium according to claim 14, wherein a path for facilitating said transmitting of said first signal between said first beamforming antenna and said second beamforming antenna is an uplink channel.

16. (Currently Amended) The machine-readable storagecomputer-readable medium according to claim 15, wherein a path for facilitating said transmitting of said second signal between said second beamforming antenna and said first beamforming antenna is a downlink channel.

17. (Currently Amended) The machine-readable storagecomputer-readable medium according to claim 16, wherein said uplink channel and said downlink channel comprise a backhaul channel.

18. (Currently Amended) The machine-readable storagecomputer-readable medium according to claim 11, comprising code for connecting said first wireless access

point located in said first cell to at least a third wireless access point located in said first cell.

19. (Currently Amended) The ~~machine-readable—storage~~computer-readable medium according to claim 18, comprising code for servicing said at least one of a plurality of access devices by said at least a third wireless access point located in said first cell whenever a signal for said at least one of a plurality of access devices falls below said specified threshold.

20. (Currently Amended) The ~~machine-readable—storage~~computer-readable medium according to claim 19, wherein at least one of said first wireless access point and said at least one of a plurality of access devices comprises code for determining when said signal for said at least one of a plurality of access devices falls below said specified threshold.

21. (Currently Amended) A system for facilitating communication in a mesh network using a plurality of wireless access points, the system comprising:

at least one circuitry that couples a first wireless access point located in a first cell of the mesh network to at least a second wireless access point located in a second cell of the mesh network;

said at least one circuitry provides service initially to at least one of a plurality of access devices in the mesh network via said at least a first wireless access point located in said first cell, wherein said at least one of said plurality of access devices maintains a handoff candidate list; and

said at least one circuitry facilitates servic[[es]]ing within the mesh network, of said at least one of a plurality of access devices by said at least a second wireless access point located in said second cell, whenever a signal for said at least one of a plurality of access devices falls below a specified threshold, wherein said second wireless access point is selected from said handoff candidate list.

22. (Original) The system according to claim 21, wherein said at least a second cell is a neighboring cell located adjacent to said first cell.

23. (Currently Amended) The system according to claim 22, comprising a first beamforming antenna coupled to said first wireless access point for transmitting a first signal from said first wireless access point to said at least a second wireless access point.

24. (Currently Amended) The system according to claim 23, comprising a second beamforming antenna coupled to said at least a second wireless access point for

transmitting a second signal from said at least a second wireless access point to said first wireless access point.

25. (Original) The system according to claim 24, wherein a path for facilitating said transmitting between said first beamforming antenna and said second beamforming antenna is an uplink channel.

26. (Original) The system according to claim 25, wherein a path for facilitating said transmitting between said second beamforming antenna and said first beamforming antenna is a downlink channel.

27. (Previously Presented) The system according to claim 26, wherein said uplink channel and said downlink channel comprise a backhaul channel.

28. (Currently Amended) The system according to claim 21, wherein said at least one circuitry couples said first wireless access point located in said first cell to at least a third wireless access point located in said first cell.

29. (Currently Amended) The system according to claim 28, wherein said at least one circuitry services said at least one of a plurality of access devices via said at least a

third wireless access point located in said first cell, whenever a signal for said at least one of a plurality of access devices falls below said specified threshold.

30. (Currently Amended) The system according to claim 29, wherein at least one of said first wireless access point and said at least one of a plurality of access devices determines when said signal for said at least one of a plurality of access devices falls below said specified threshold.